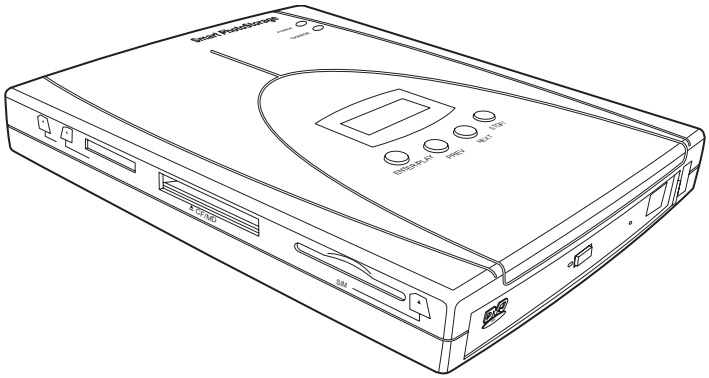
PhotoStorage



User Manual

ENGLISH

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Introduction

Overview

Thank you for purchasing the PhotoStorage^{tm}. The PhotoStorage is a portable MP3 player, CD player and DVD/VCD player all rolled into one. As a CD burner, you can use a CD-RW to create a multi-session CD, enabling you to continuously backup photos, taken with a digital camera, while away on long vacations. The PhotoStorage supports many different types of Flash Memory Cards, so no matter what the camera, you will always be able to back up your photos as well as other multimedia files.

The PhotoStorage's on screen display menu enables you to change settings, view photos, play movies or music, and manage multimedia files.

System Requirements

To use PhotoStorage, you will need the following equipment:

For listening to music

- Speakers/headphones

For other media types

- Television/projector

To connect to a PC

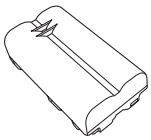
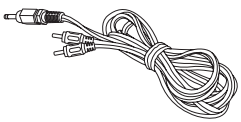
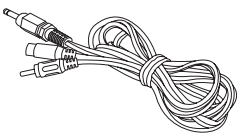
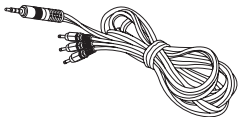
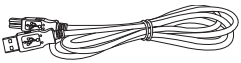
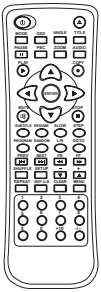
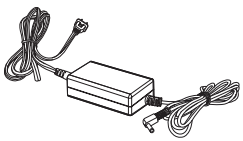
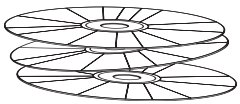
- A PC with an available USB port
- Windows XP/2000/ME/98SE or Mac OS X
- A CD Drive to install Windows ME and Windows 98SE drivers.

Features

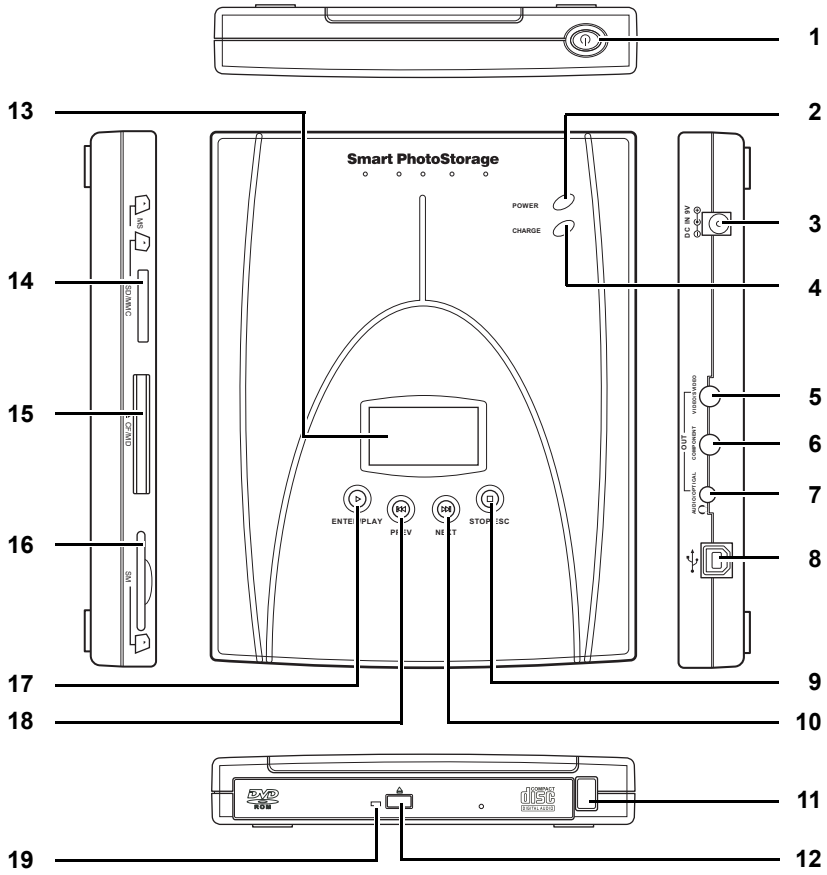
- Slim sized, portable, stand-alone 9-in-3 flash memory card to CD-RW backup photo storage system
- Supports disk spanning for larger than 1GB flash size
- Supports the following multimedia types: audio CD/DVD/VCD/SVCD/MP3/MPEG/JPEG/WAV
- Multiple flash memory card support: CF-type I & II/MD/SM/MS&Pro/MMC/SD/xD
- High speed USB 2.0 host connection for reader and CD-RW drive
- Video out for PAL/NTSC and stereo audio out
- Easy operation, remote control and LCD display with button controls, no PC required
- Rechargeable battery enables PhotoStorage to be portable CD/MP3 player

Package List

The following items are included with the PhotoStorage.

Item	Item
PhotoStorage	Battery 
Audio cable 	Video cable 
Component cable (optional) 	USB cable 
Quick start guide	Remote control 
9V DC power adapter (The power adapter that comes with your machine may not look the same as the one in the diagram) 	1 x blank CD-RW CD-ROM burning software (optional) USB2.0 driver installation CD for Windows ME/98SE and Mac OS X (includes a User Guide in PDF format) 

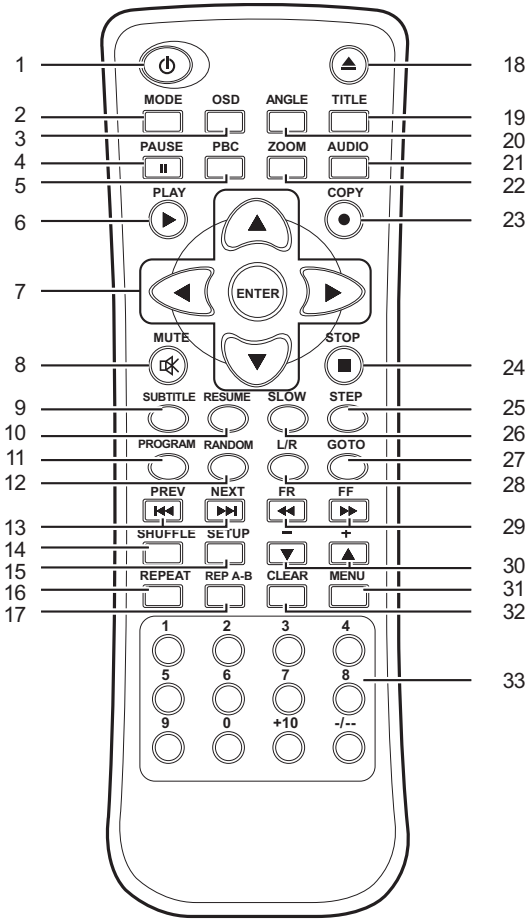
About the PhotoStorage



	Item	Function
1.	Power button	Turns the PhotoStorage on and off
2.	POWER LED	Indicates that the PhotoStorage is turned on
3.	DC IN	Power socket for connecting to power
4.	CHARGE LED	Flashes orange when charging the battery Steady green when the battery is fully charged
5.	VIDEO/S-VIDEO OUT	VIDEO/S-VIDEO output to a TV or a projector
6.	COMPONENT OUT	Component video output to a TV or a projector
7.	AUDIO/OPTICAL OUT	Audio out to TV, stereo or headphones
8.	USB port	USB port for connecting to a computer
9.	STOP/ESC button	Stops playback of a multimedia file or CD
10.	NEXT button	Skips to the next track/chapter
11.	IR port	Point the remote control at the Infra Red (IR) port to operate the PhotoStorage
12.	CD-R/W Eject button	Ejects the CD
13.	LCD display panel	Shows PhotoStorage status
14.	MS/SD/MMC card slot	These 3 slots accomodate several different types of Flash Memory Cards
15.	CF/MD card slot	
16.	SM card slot	
17.	ENTER/PLAY button	Starts playing a multimedia file or CD
18.	PREV button	Skips to the previous track/chapter
19.	CD-R/W LED	Flashes green when in use

About the Remote Control

Below is a description of the remote control's buttons:



	Button	Function
1.	POWER ON/OFF	Turns the PhotoStorage on and off.
2.	MODE	Switches between the CD and a flash card.

	Button	Function
3.	OSD	The On Screen Display (OSD) displays the status bar at the top of the screen that includes playback and remaining time for both the title and the chapter of the current multimedia.
4.	PAUSE	Pauses playback of movies or music.
5.	PBC	If a video CD has “Playback control” (PBC) written on its disc, it means that particular scenes or information can be selected for interactive viewing. Press this button to use this feature.
6.	PLAY	Starts playback of multimedia files or CDs.
7.	MENU CONTROL BUTTONS	Used for navigating and entering menus.
8.	MUTE	Disables the sound during playback.
9.	SUBTITLE	Changes the language of the DVD’s subtitles.
10.	RESUME	Used only in conjunction with the STEP button (25). Steps back through a movie one frame at a time.
11.	PROGRAM	Displays a screen where you can program the playback of an audio CD.
12.	RANDOM	Not used.
13.	PREV/NEXT	Skips to the previous or next chapter of a DVD/VCD or track in the case of an audio CD, respectively.
14.	SHUFFLE	Shuffles music tracks for random playback.
15.	SETUP	Used for setting various options of the PhotoStorage.
16.	REPEAT	Cycles through repeating of the current chapter/track, repeating of the whole CD/DVD, and no repeat.
17.	REP A-B	Marks the start (A) and end (B) points for repeated playback.
18.	EJECT	Ejects the disk.

	Button	Function
19.	TITLE	Displays the DVD's title screen where you can set various settings such as language and sound preferences. Use the MENU CONTROL buttons (7) to navigate around the screen.
20.	ANGLE	Some DVD movies have images shot at different camera angles. Use this to select which angle you want to watch it from. This only works if there is an angle mark on the DVD and you have selected "ON" for angle mark in the GENERAL SETUP.
21.	AUDIO	Selects the language for the DVD's audio output.
22.	ZOOM	Cycles through three zoom levels: 1.5x, 2x, 3x, and zoom off.
23.	COPY	Copyies (burns) files from the Flash Memory Card to the CD-RW.
24.	STOP	Stops the playback of movies or music.
25.	STEP	Steps through a movie one frame at a time. Press PLAY (6) to resume normal play.
26.	SLOW	Cycles through 1/2x, 1/4x, and 1/8x of normal playback speed.
27.	GO TO	Skips to a desired chapter.
28.	L/R	Not used.
29.	FR/FF	Cycles through 2, 4, 6, and 8 times normal playback speeds for fast reverse and fast forward respectively.
30.	VOLUME CONTROLS	Controls the volume level.
31.	MENU	Displays a menu for playing a DVD and obtaining the playback status.
32.	CLEAR	Deletes numbers for GO TO play, repeated play, programed play and security codes.
33.	NUMBER BUTTONS (0 ~ 9, 10+)	Selects a track or menu/submenu.

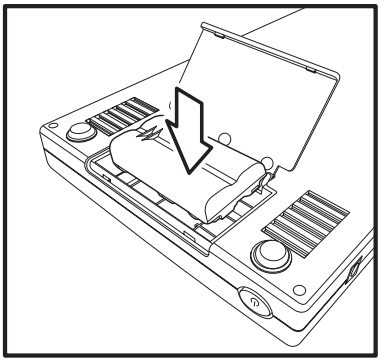
Getting Started

Inserting and Replacing the Batteries

Inserting the Battery into the PhotoStorage.

To insert a battery:

1. Slide the battery cover out.
2. Lift the battery cover up.
3. Insert the battery with the metal contacts aligned with the metal contacts in the battery compartment.
4. Close the battery cover.

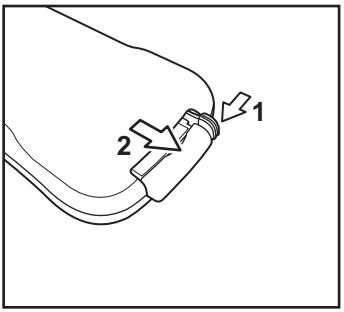


Using a battery, turns the PhotoStorage into a portable CD or MP3 player.

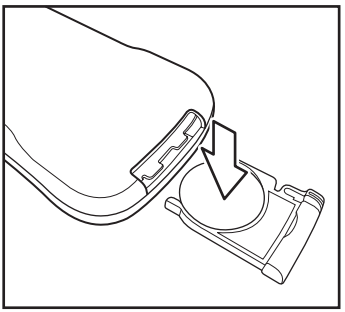
Replacing the Remote Control's Battery

To replace the battery:

1. Press the clip in (1).
2. Gently slide the battery holder out (2).



3. Replace the battery with a new one as shown in the diagram.
4. Gently slide the battery holder, with the new battery back into place.

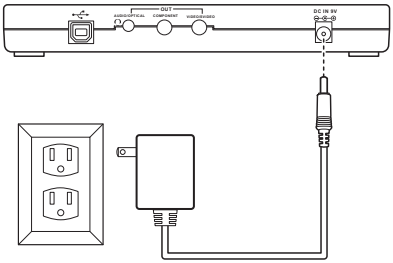


Cable Connections

The following descriptions show how to make the various connections.

Connecting the Power

Plug the DC power adaptor into a wall socket then connect the DC power adaptor to PhotoStorage's **DC IN 9V** socket as shown in the diagram.



If the rechargeable battery has been inserted, connecting the power recharges the battery. The **CHARGE LED** (see *About the PhotoStorage* on page 4) flashes orange while charging and is a steady green when fully charged.

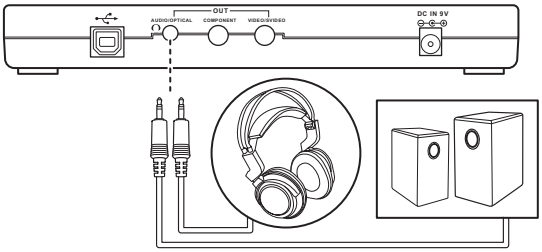
Standalone Connection

Without any connections, PhotoStorage can only be used for burning CDs as a way to back up your files from a flash memory card.

Connecting to Headphones or a Stereo System

There are two ways in which you can make a connection for listening to music.

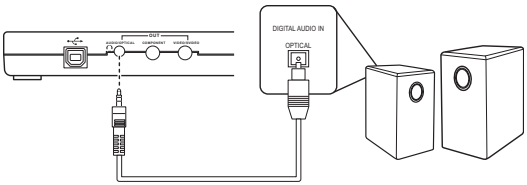
- Connect your headphone cable into the **AUDIO/OPTICAL** socket on the PhotoStorage.
- Connect the audio cable from the **AUDIO/OPTICAL** socket on the PhotoStorage to the audio input sockets on your stereo.



Making Optical Digital Audio Output Connections

To get the best quality sound from DVDs that are recorded with Dolby 5.1 Digital Surround Sound, you need a stereo system with an Optical Digital Audio Input to receive the RAW audio signals from the PhotoStorage.

1. Connect an Optical Digital Audio Connector from the **AUDIO/OPTICAL** socket on the PhotoStorage to the Optical Digital In socket on your stereo system.

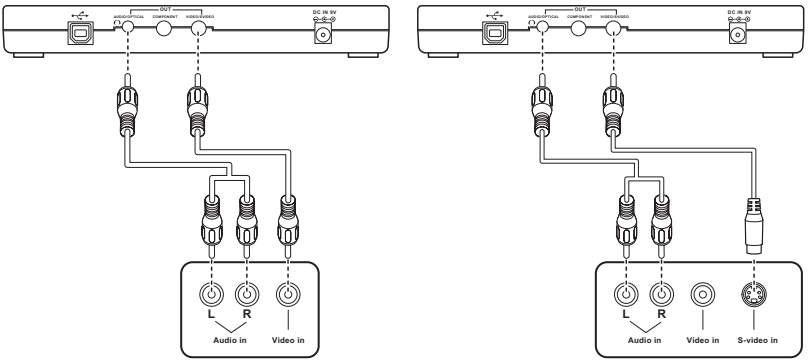


2. Set **AUDIO OUT** to **SPDIF/RAW** or **SPDIF/PCM** as described in *AUDIO SETUP* on page 20.
3. Set your stereo system's audio input to match the settings of the PhotoStorage.

Connecting to a TV or Projector

Follow these steps to connect the PhotoStorage to a television or projector.

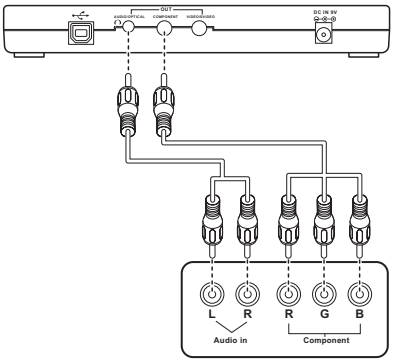
1. Connect the audio cable (red and white plugs) from the **AUDIO/OPTICAL** socket to the audio IN socket of your TV or stereo system.
2. Connect the AV cable (yellow plug) from the PhotoStorage's **VIDEO/S-VIDEO** socket to the **VIDEO IN** or **S-VIDEO IN** socket of the TV or projector.



Cable Connections

If your television/projector has COMPONENT IN sockets, follow these steps.

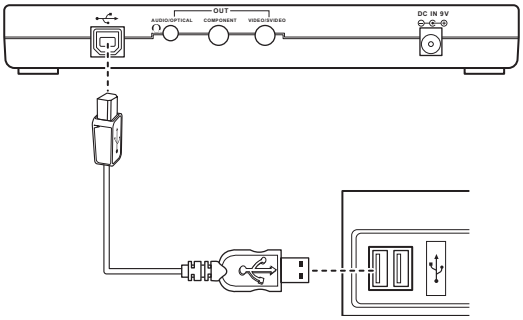
1. Connect the audio cable (red and white plugs) from the **AUDIO/OPTICAL** socket to the audio IN socket of your TV or stereo system.
2. Connect the component cable from the PhotoStorage's **COMPONENT** socket to the RGB **COMPONENT IN** sockets of the TV or projector, matching the Red, Green, and Blue plugs to their respective sockets.



Connecting to a Computer

Follow these steps to connect the PhotoStorage to a computer

1. Connect the USB cable from the PhotoStorage's USB port to the USB port on the back of the computer.



2. A "New hardware found" screen appears. Follow the instructions on the screen and restart your computer when prompted.

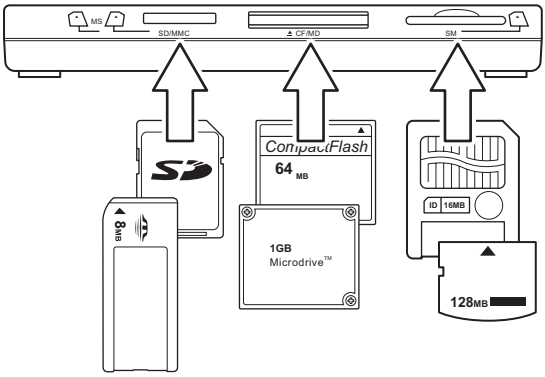
If you have Windows 98, you will need to install the drivers as described in *Installing Drivers* on page 14.

Once the drivers have been installed, a CD drive icon and up to three removable hard drive icons will appear in **My Computer** on the desktop.

Inserting Flash Memory Cards

PhotoStorage supports a number of different card types. The following instructions explain how to insert a Flash Memory Card.

1. Position the Flash Memory Card in the direction shown in the diagram.



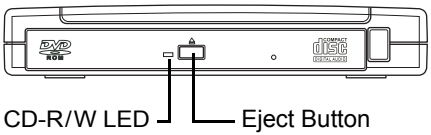
2. Make sure that the card is being inserted into the correct slot.
   - Left slot is for MS, MS Pre, MS Duo, SD and MMC cards
   - Middle slot is for CF and MD cards
   - Right slot is for SM and xD cards
3. Making sure that the card is oriented correctly – all cards will have a direction arrow indicated – push the card in until it locks in place. A slight amount of resistance will be felt as the card is seated. This is normal.

To remove a Flash Memory Card, grasp the end firmly between your thumb and index finger and pull the card from the slot.

NOTE: Only one Flash Memory Card can be used at any one time.

Inserting and Removing a CD

1. Press the eject button at the front of the PhotoStorage.

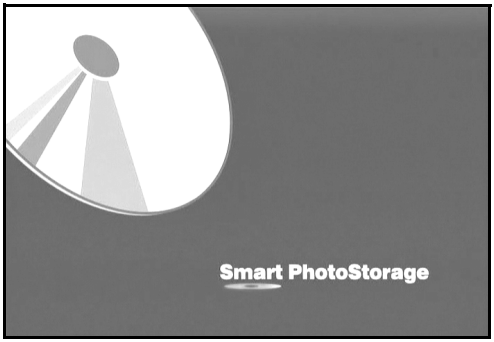


2. Insert or remove a CD/DVD from the PhotoStorage and close the drive.

Turning the PhotoStorage On

To turn on the PhotoStorage:

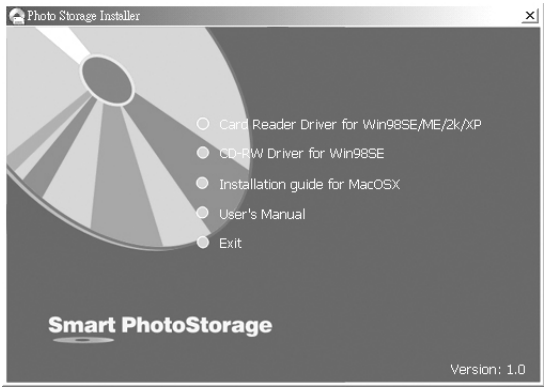
1. Make the appropriate connections as described in *Cable Connections* on page 10.
2. Push the **POWER ON/OFF** button for about two seconds. The front LCD panel lights up and if connected to a TV or projector, the main screen appears.



Installing Drivers

For Windows 98SE and ME, you will need to install the Card Reader and CD-RW drivers.

1. Connect the PhotoStorage to the computer as described in *Connecting to a Computer* on page 12.
2. Insert the supplied driver CD into the CD-ROM drive. The following screen is displayed.
3. Click **Card Reader Driver for Win 98SE/ME/2k/XP** and follow the instructions on the screen.
4. Click **CD-RW Driver for Win 98SE** and follow the instructions on the screen.



NOTE: For Mac OS X, refer to the mac_installation.pdf file located in the Mac_Installation directory of the Driver CD for installation instructions.

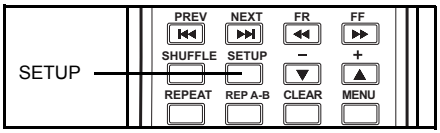
Using PhotoStorage

Using the OSD Setup Menus

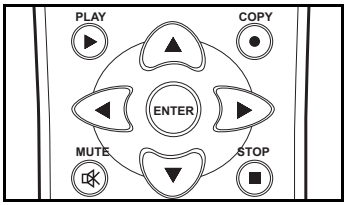
This section describes the different settings within the Setup Menus.

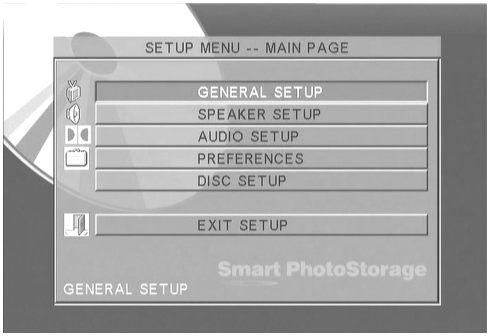
Navigating the Menus

1. To bring up the **SETUP MENU**, press the **SETUP** button on the remote control.

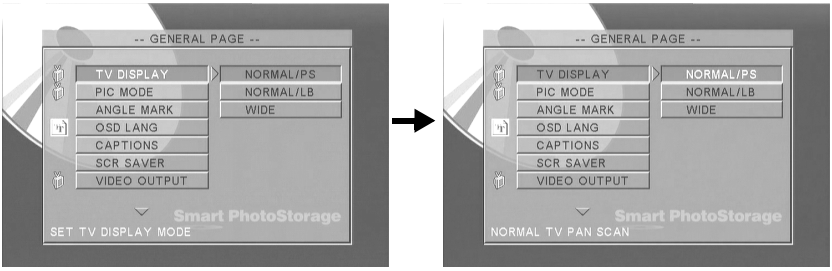


2. In the **MAIN PAGE** of the **SETUP MENU**, press the **UP** and **DOWN** buttons on the remote control to select the desired submenu.



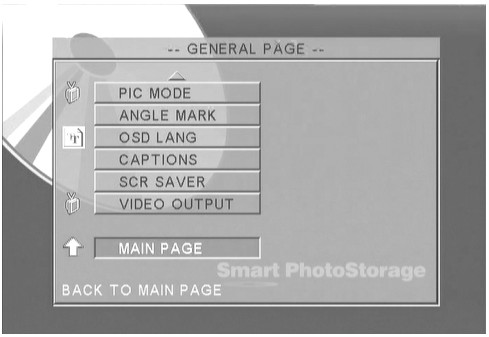


3. Press the **ENTER** button on the remote control to enter the selected submenu.
4. In the submenu, press the **UP** and **DOWN** buttons to select the desired setting.
5. Press the **RIGHT** button on the remote control to move across to the options for that setting in the right column, as shown below.



6. Press the **UP** and **DOWN** buttons to select the options for that setting.
7. Press the **ENTER** button to confirm your option.

To exit, press the **LEFT** button to return to the submenu settings in the left column. Scroll down to **MAIN PAGE** and press **ENTER** to return to the main menu.



Scroll down to **EXIT SETUP** and press **ENTER** to exit the **SETUP MENU**.

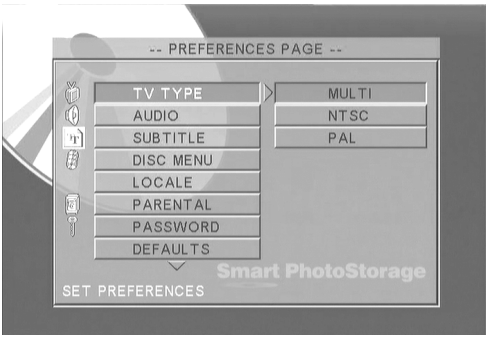
Pressing the **SETUP** button on the remote control at any time will also exit the **SETUP MENU**.

If an arrow appears at the top or bottom of the left menu button column, it means there are more menus/options to choose from that aren't displayed on the screen.

Adjusting the TV Settings

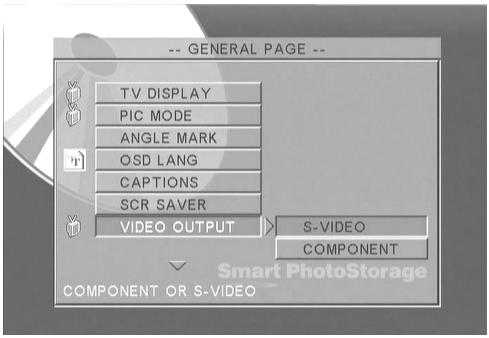
To adjust the TV Settings:

1. Enter the **SETUP MENU** as described in *Navigating the Menus* on page 15.
2. Enter the **PREFERENCES page** and select **TV TYPE**.
3. Select the TV type required. Options are **MULTI, NTSC**, and **PAL**. **MULTI** means that both NTSC and PAL signals are sent from the PhotoStorage to the TV or Projector.



NOTE: You will also need to know whether the source DVD is in NTSC or PAL format before setting this option.

4. Return to the main menu and enter the **GENERAL SETUP page**.
5. Scroll down to **VIDEO OUTPUT**.

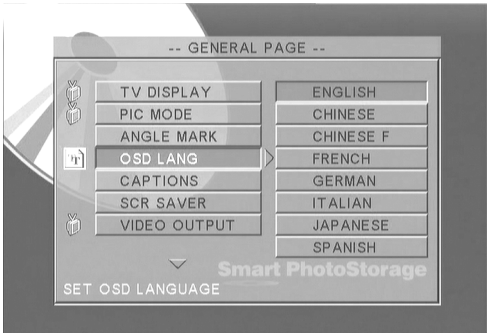


6. Select the video output, **S-VIDEO** or **COMPONENT**, that you will be connecting to on the PhotoStorage. See *Connecting to a TV or Projector* on page 11.

Setting the OSD Language

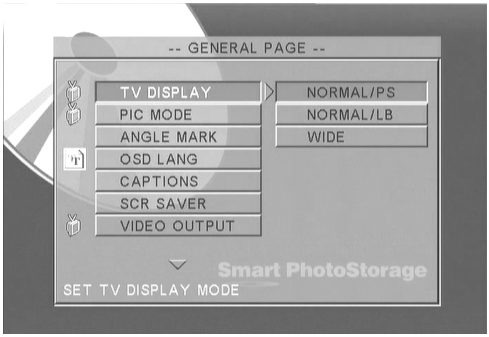
To set the OSD language:

1. Enter the **SETUP MENU** as described in *Navigating the Menus* on page 15.
2. Enter the **GENERAL SETUP page** and scroll down to **OSD LANG**.



3. Select the desired language.

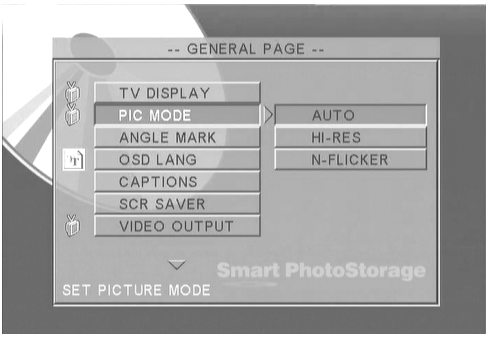
GENERAL SETUP



TV DISPLAY has three options for choosing the displays aspect ratio.

- **NORMAL/PS** – for viewing on a normal TV.
- **NORMAL/LB** – for viewing similar to that of a movie at the theater. This is best used on a normal TV. There will be two black sections at the top and bottom of the screen.
- **WIDE** – This is similar to NORMAL/LB but meant for widevision televisions. If played on a normal television, the whole TV screen will display a picture but the sides will be cut off.

PIC MODE has three options.



- **AUTO** – automatically chooses the best resolution for the unit being displayed on.
- **HIRES** – for high resolution picture mode.
- **N-FLICKER** – for non-flicker picture mode.

ANGLE MARK can be turned on or off. It is used to allow for viewing a movie from different angles. This can only be used if the DVD movie has been filmed from different angles.

For an explanation of **OSD LANG**, see *Setting the OSD Language* on page 17.

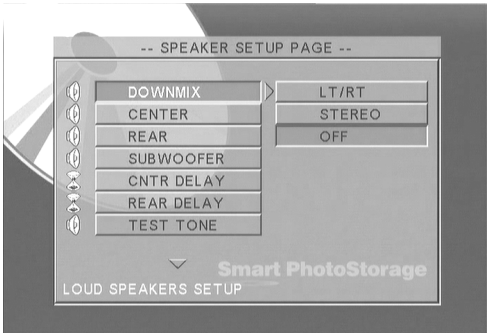
CAPTIONS can be turned on or off.

SCR SAVER can be turned on or off.

For an explanation of **VIDEO OUTPUT**, see *Adjusting the TV Settings* on page 16.

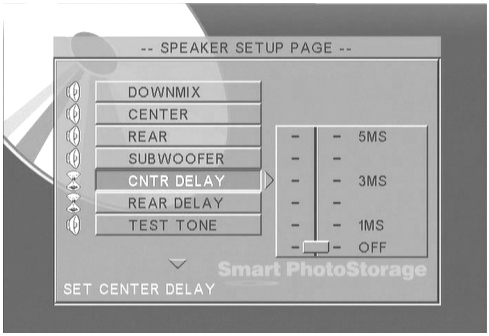
SPEAKER SETUP

DOWNMIX converts Dolby surround sound to normal stereo sound maintaining a high quality sound.



- **LR/RT** – is used when the DVD has been recorded in DOLBY PRO-LOGIC stereo.
- **STEREO** – produces ordinary stereo sounds.
- **OFF** - turns off downmixing.

CENTER, **REAR**, and **SUB-WOOFER** speaker settings can be turned on or off. If the center or rear speakers are turned on, the **CNTR DELAY** or **REAR DE-LAY** settings become available respectively.



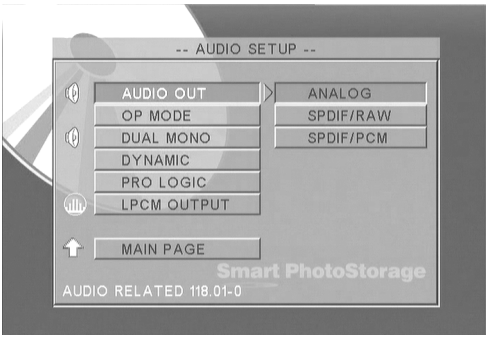
These center and rear delays settings have a slider to select the delay in milliseconds. Be-sides an off position for both, the center delay has a range of 1-5ms while the rear delay has a range of 3-15ms.

TEST TONE enables you to test the sound of your system.

NOTE: To enable the speaker options, set **DOWNMIX** to off and **AUDIO OUT** to **ANALOG** as described in *AUDIO SETUP* on page 20.

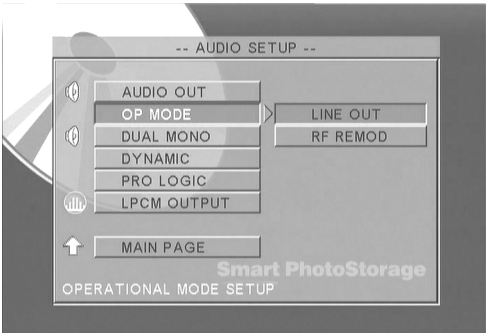
AUDIO SETUP

AUDIO OUT has three options



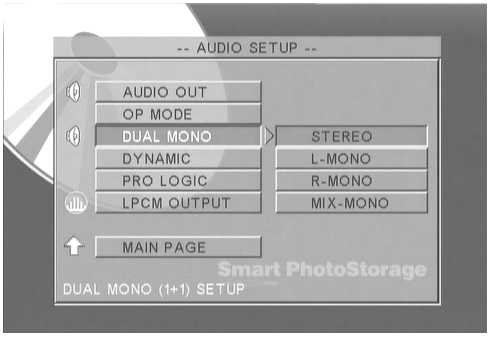
- **ANALOG** – This is normally used with speakers.
- **SPDIF/RAW** – Select this if the surround sound is output through optical or coaxial cables.
- **SPDIF/PCM** – Select this if the surround sound is output through optical or coaxial cables (pulse code modulation).

OPMODE has two options.

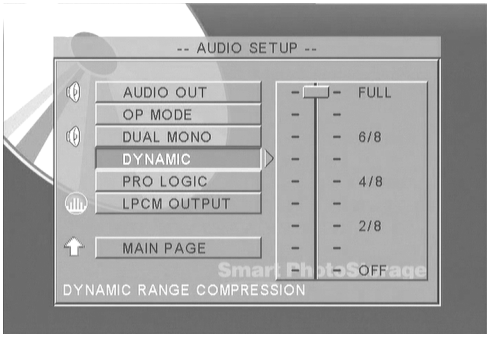


- **LINE OUT** – This is used in most cases.
- **RF REMOD** – Select this option when headphones are used.

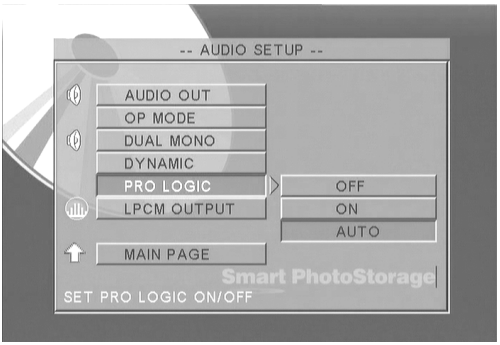
DUAL MONO – Can only be with Dolby Digital disks that have dual mono software encoded in them. You can select one of the following options: **STEREO**, **L-MONO**, **R-MONO**, or **MIX-MONO**.



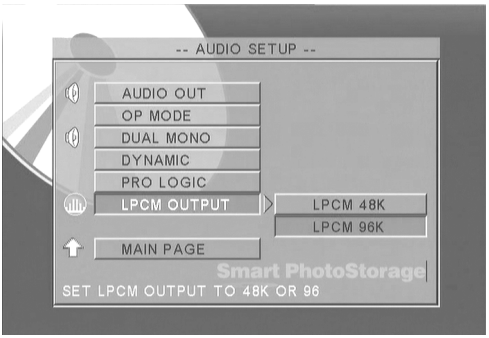
DYNAMIC – Move the slider to make your selection.



PRO LOGIC – Set this as **ON**, **OFF** or **AUTO**.



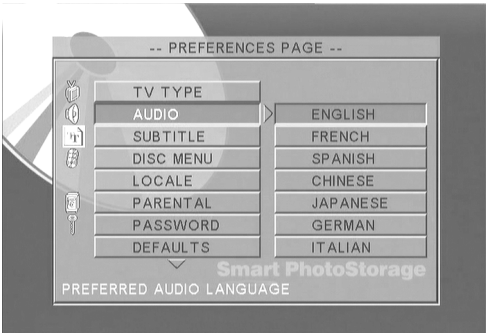
LPCM OUTPUT – Select 48K or 98K as the digitizing speed for LPCM. This is an uncompressed format for audio.



PREFERENCES

For an explanation of **TV TYPE**, see *Adjusting the TV Settings* on page 16.

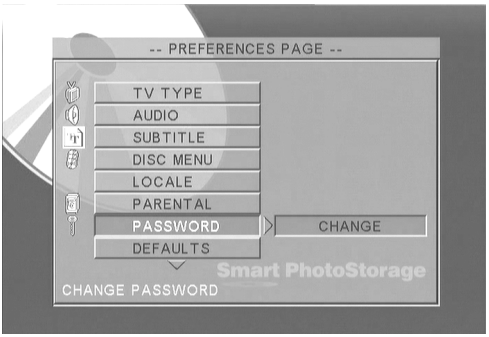
DVDs may contain a number of different languages for **AUDIO**, **SUBTITLE** and **DISC MENU**. Setting these options automatically selects the languages to be used by the DVD if those languages are contained within the DVD itself. **SUBTITLE** also contains an **OFF** option.



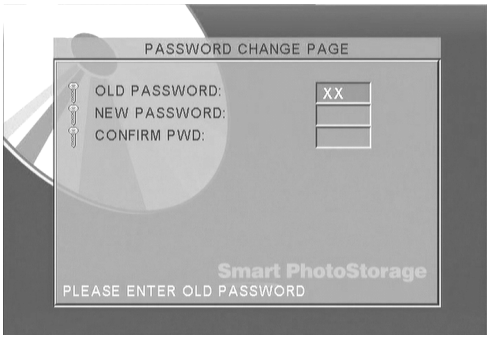
LOCALE is used to select the country you're in.

PARENTAL and **PASSWORD** are used together to set the age restriction for preventing children from watching violent or sexual scenes. To change or set up a new parental password, follow the steps below.

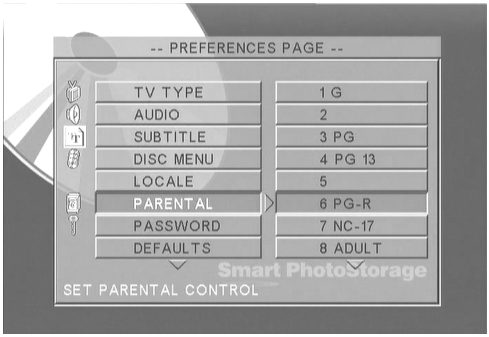
1. Go to **PASSWORD**, select **CHANGE** and press **ENTER** on the remote control.



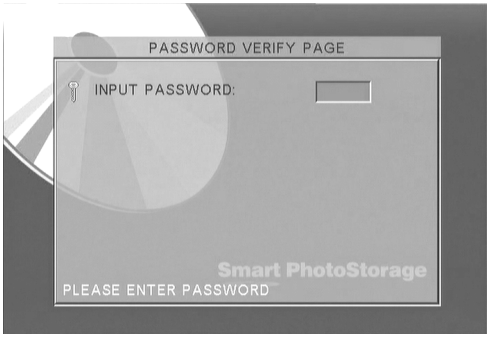
2. Enter the old four digit password code using the number buttons on the remote. For a new machine, the default is 3308.



3. Enter the new four digit password code and then enter it a second time.
4. Set an appropriate restriction from the **PARENTAL** list.



5. Upon setting a restriction, a Password Verification Page is displayed. Enter the 4 digit password and press **ENTER**.



The **PARENTAL** list is the MPAA ratings and their definitions are listed in the following table.

MPAA RATINGS

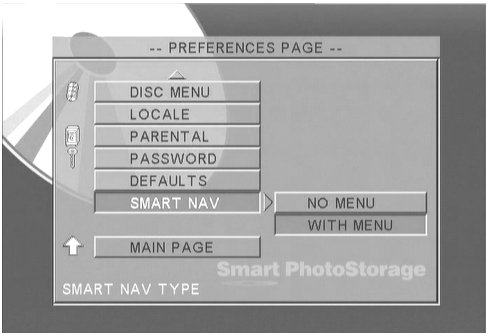
Age base	G	GENERAL AUDIENCES	Suitable for all ages.
	PG	PARENTAL GUIDANCE SUGGESTED	Some material may not be suitable for children.
	PG-13	PARENTS STRONGLY CAUTIONED	Some material may be inappropriate for children under 13.
	R	RESTRICTED	Under 17 requires accompanying guardian or parent
	NC-17	NO ONE 17 OR UNDER ADMITTED	
	ADULT	NO ONE 18 OR UNDER ADMITTED	

When a DVD is played with a rating of that set in **PARENTAL** or higher, the password verification screen, shown in step 5, is displayed.

Enter the correct password using the number buttons on the remote control.

Select **RESET** in **DEFAULTS** to reset the settings back to factory settings.

Selecting **WITH MENU** for **SMART NAV** setting will enable you to view files on Flash Memory Cards or CD.



DISC SETUP

This page is used to set various CD-RW functions for burning (writing) a CD.

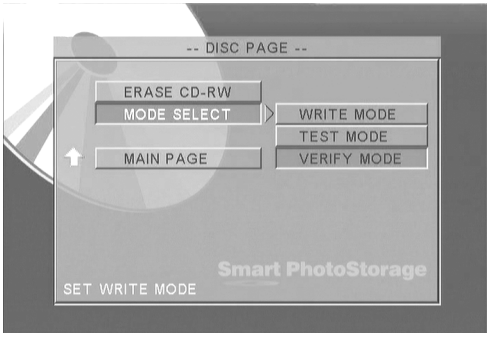
ERASE CD-RW is used to erase a CD-RW before burning.

MODE SELECT has three options.

WRITE MODE – burns to the CD.

TEST MODE – simulates a burn to the CD but does not actually perform an actual burn.

VERIFY MODE – burns to the CD and then verifies the data.



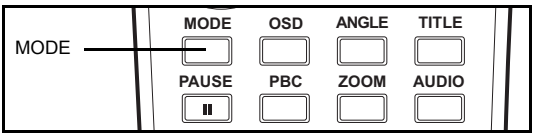
Switching between Flash Memory Cards and a CD

There a two ways to switch between a Flash Memory Card and a CD.

Using the Remote Control

This method is normally used when the PhotoStorage is connected to a TV or a projector.

Press the **MODE** button on the remote control. The **GOTO** button can also be used.

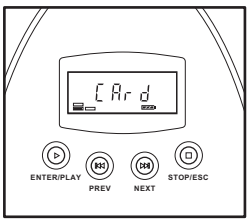


The OSD will display **FLASH CARD** or **DISC LOADING** in the top left corner.

Using the Buttons on the PhotoStorage

This method is used for when you are on the road and a TV or projector is not available.

1. Press the STOP/ESC button on the PhotoStorage to bring up the menu in the LCD panel.
2. Press the PREV and NEXT buttons to switch between **CArd**, **dISC**, **COPY** or **ErASE**.
3. Press the ENTER/PLAY button to switch to the desired media storage type, copy files to a CD-R/W or erasing a CD-RW. See *Writing (Burning) Files to a CD* on page 33 for details on the copy and erase functions.



Copying Files to the Computer

Copying from a Flash Memory Card

1. Connect the PhotoStorage to the computer as described in *Connecting to a Computer* on page 12.

   Once connected, a CD drive icon and up to three removable hard drive icons will appear in **My Computer** on the desktop.
2. Open the removable hard drive that contains the Flash Memory Card data.
3. Copy the files across to the computer as you normally would.

Files can also be copied to a Flash Memory Card in the same way.

Copying from a CD

1. Make connections as described in *Connecting to a Computer* on page 12.

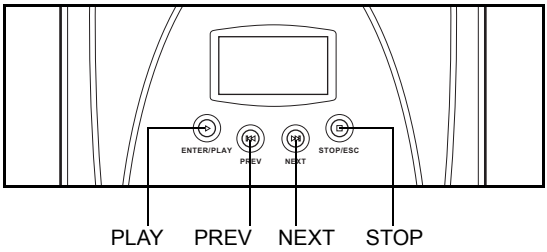
   Once connected, a CD drive icon and up to three removable hard drive icons will appear in **My Computer** on the desktop.
2. Open the new CD drive icon.
3. Copy the files across to the computer as you normally would.

Listening to Music

The PhotoStorage can be used as a portable CD or MP3 player all rolled into one.

To listen to music, follow the steps below.

1. Make connections as described in *Connecting to Headphones or a Stereo System* on page 10.
2. Insert a music CD or a Flash Memory Card containing MP3 files or other music file formats as described in *Inserting and Removing a CD* on page 13 or *Inserting Flash Memory Cards* on page 13 respectively.
3. Switch to the correct media storage type as described in *Switching between Flash Memory Cards and a CD* on page 25.
4. Press the **PLAY** button on the PhotoStorage to start playback.



Press **PLAY** during playback to pause and then **PLAY** again to continue with playback.

Press **STOP** to stop playback.

Press **PREV** and **NEXT** buttons to go to the previous or next tracks respectively.

To be able to use other functions effectively, such as repeat, program and so on, you will need to connect it to a TV as described in *Connecting to a TV or Projector* on page 11. See *Playing a VCD or DVD* on page 30 for other functions.

Viewing and Editing Media Files

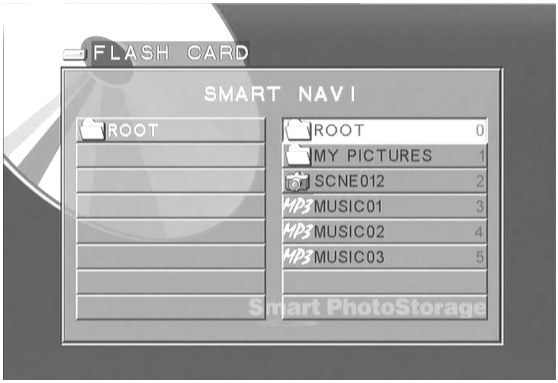
To view pictures, you will first need to:

1. Make connections in *Connecting to a TV or Projector* on page 11.
2. Refer to *Switching between Flash Memory Cards and a CD* on page 25 to switch to the correct media storage type where the files are stored.

View files when **WITH MENU** option is set for **SMART NAV,** as described in *PREFERENCES* on page 22, is easier than with **NO MENU**.

Viewing files with the SMART NAVI Menu

1. After setting **SMART NAV** and exiting from the setup menu, the following screen will then appear.



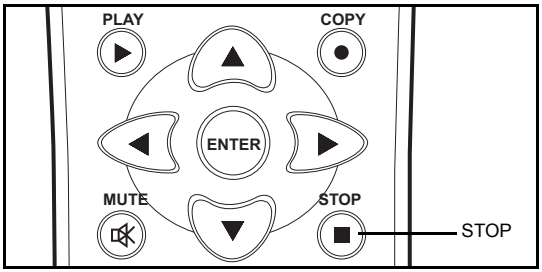
2. Navigate through folders and select files as described in *Navigating the Menus* on page 15. Pressing a number on the remote control's number pad will also select that file or folder.

   If you are in a sub folder, the top right menu item will be **".."** which means to go back to the previous folder.

   Selecting an audio or movie file will play that file. See *Listening to Music* on page 26 and *Playing a VCD or DVD* on page 30 for more information about these types of files.

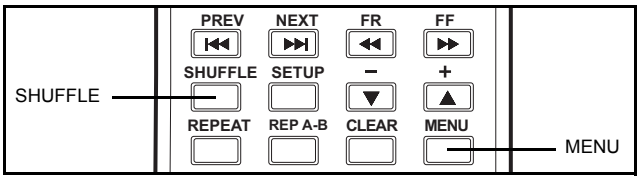
3. Use the left and right buttons on the remote control to rotate the image 90^{o}. Use the up and down buttons to mirror the image on the horizontal axis.

4. Press **STOP** button to exit.



Viewing files without the SMART NAVI Menu

1. Press the **SHUFFLE** button until **FOLDER** is displayed on the OSD.



2. Press **MENU** and the following thumbnail screen will appear.
3. Press a number button on the remote control and the corresponding picture will be displayed.

   If slide show is not set to **NONE**, the pictures will be displayed otherwise it will display the pictures as a slide show.

4. Use the left and right buttons on the remote control to rotate the image 90^{o}. Use the up and down buttons to mirror the image on the horizontal axis.
5. Press **STOP** button to exit.

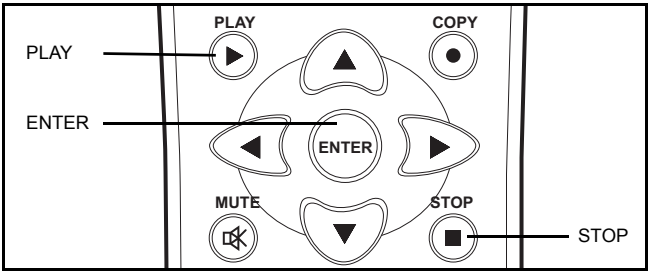
Using the Slide Show

1. Bring up one of the two screens as described in the previous two sections, SMART NAVI and thumb nail screen.
2. Press the **RESUME** button to cycle through a number of different slide show effects as shown in the table below.

Mode	Effect	Mode	Effect
0	No special effects (default)	7	Wipe from right to left
1	Wipe from top to bottom	8	Wipe from left/right to center
2	Wipe from bottom to top	9	Wipe from center to left/right
3	Wipe from top/bottom to center	10	Wipe from edge to center
4	Wipe from center to top/ bottom	11	Horizontal blinds
5	Vertical blinds	12	Random
6	Wipe from left to right		

3. Press **PLAY** or **ENTER** on the remote control to start the slide show.

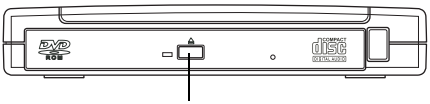
   If slide show is set to **NONE**, a single picture will be displayed otherwise it will display the pictures as a slide show.
4. Use the left and right buttons on the remote control to rotate the image 90^{o}. Use the up and down buttons to mirror the image on the horizontal axis.
5. Press **STOP** button to stop the slide show.



Playing a VCD or DVD

To play a VCD or DVD:

1. Connect the PhotoStorage as described in *Connecting to a TV or Projector* on page 11.
2. Press the eject button at the front of the PhotoStorage.

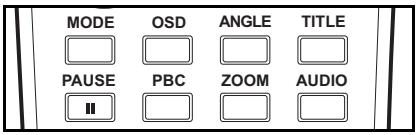


Eject Button

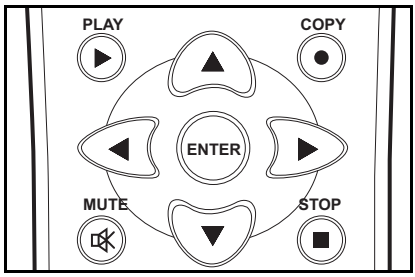
3. Insert a VCD or DVD into the PhotoStorage and close the drive. The DVD should automatically start playing.
4. A DVD's audio, subtitle, and menu will automatically be set depending on the available languages on the DVD and the settings as described in *PREFERENCES* on page 22.

Basic Functions

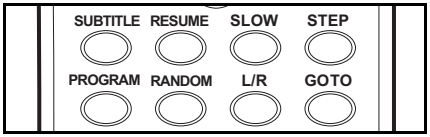
Other functions that are available while playing a movie are:



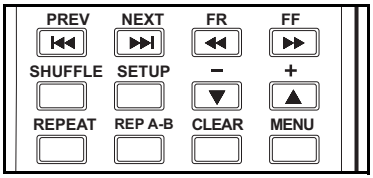
- **OSD** – Cycles through the elapsed and remaining times for both title and chapter.
- **ANGLE** – Displays the movie from a different camera angle. Only available on DVDs that have been recorded with different camera angles and **ANGLE MARK**, indicated by in the top right corner of the OSD, has been turned on as described in *GENERAL SETUP* on page 18.
- **TITLE** – Displays the title of the DVD movie.
- **PAUSE** – Pauses playback of a multimedia file. Press this again to continue playback or press the **PLAY** button.
- **PBC** – If a video CD has "Playback control" (PBC) written on its disc, it means that particular scenes or information can be selected for interactive viewing. Press this button to use this feature.
- **ZOOM** – Cycles through three zoom levels: 1.5x, 2x, 3x, and zoom off. Does not work with audio.
- **AUDIO** – Cycles through the DVD's available audio languages.



- **PLAY** – Starts playing a multimedia CD/file or continues playback after pausing.
- **ARROW BUTTONS** – Selects a menu item in a DVD menu.
- **ENTER** – To choose an item on the DVD menu. Begins playback if the main PhotoStorage screen is being displayed.
- **MUTE** – Disable the sound during playback.
- **STOP** – Stops playing the multimedia CD or file.



- **SUBTITLE** – Cycles through the DVD's available subtitle languages during playback.
- **RESUME** – Works only in conjunction with the **STEP** button and steps backward a frame at a time.
- **SLOW** – Cycles through 1/2x, 1/4x, 1/8x of normal playback speed in both a backward and forward direction and then back to normal playback speeds.
- **STEP** – Used to step through a frame at a time. Doesn't work with audio. Press the **PLAY** or **ENTER** buttons to continue with normal playback.

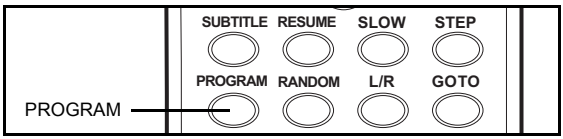


- **PREV/NEXT** – Skips to the previous or next chapter of a DVD/VCD or track in the case of an audio CD, respectively
- **FR/FF** – Cycles through 2, 4, 6, and 8 times normal playback speeds for fast reverse and fast forward respectively.
- **SHUFFLE** – Sets a random sequence for playing audio files or CDs. Press this until **RANDOM** appears in the top left corner of the OSD.
- **- and +** – These are the volume controls.
- **CLEAR** – Clears repeated tracks/titles, randomized tracks and programed tracks.
- **MENU** – Displays the DVD's main menu.

Programming the Playing Order of Audio or Video CDs

To program the playing order of audio CDs, video CDs and other multimedia files, follow the steps below.

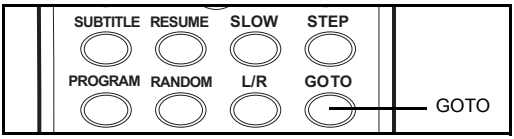
1. Play the audio or video CD/file as normal.
2. Pause playback.
3. Press **PROGRAM** on the remote control.



4. PROGRAM 00 : 0000 appears on the screen. Type in the tracks/chapters that you want to play in order.

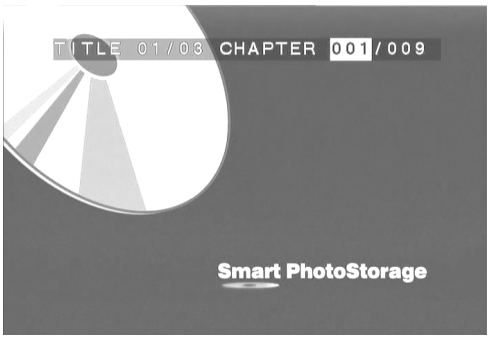
Going to a Particular DVD Chapter.

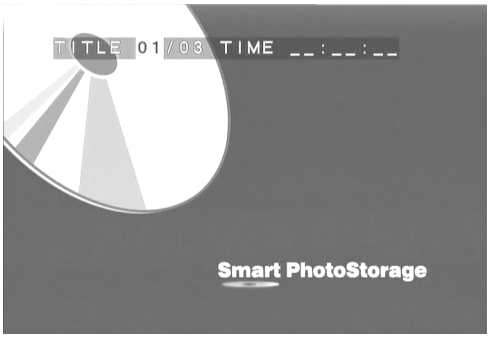
1. Press the **GOTO** button on the remote control.



The screen to the right will appear.

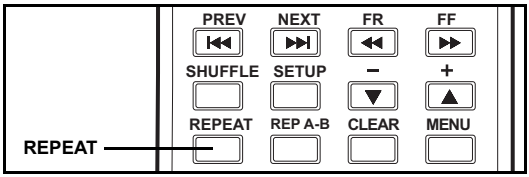
2. Press the left or right arrow buttons on the remote control to select **TITLE** and enter the number using the number buttons.
3. Press the left or right arrow buttons again to select **CHAPTER** and use the number buttons to go to the desired chapter.
4. Pressing the **GOTO** button twice will bring up a time screen where you can enter a time frame to go to instead.





Repeating Chapters/Tracks

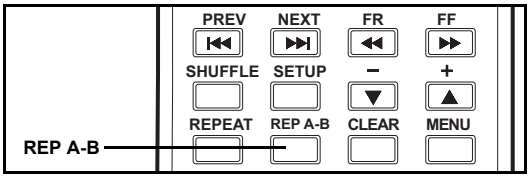
Press the **REPEAT** button on the remote control for repeating chapters or tracks.



For DVDs, this will cycle through **CHAPTER REPEAT ON**, **TITLE REPEAT ON** and **REPEAT OFF**. The current chapter or title will be repeated.

For music, **REP-ONE** will repeat the current track while **REP-ALL** will repeat all tracks. **REPEAT OFF** will turn of repeating of tracks.

The **REP A-B** button is used for repeating between several titles or tracks.



1. Press the **REP A-B** button to set the start position. The **A TO B SET A** message will be displayed.
2. Continue playing as normal until the desired end position and press **REP A-B** button again. The **A TO B SET B** message will be displayed.
3. Press the **REP A-B** button once again to cancel repeated playback.

Writing (Burning) Files to a CD

Files can be written to a CD-R or CD-RW, which is known as burning, as a way of backing up files. With a CD-RW, multi-session CDs are created enabling you to write to the CD as many times as you like.

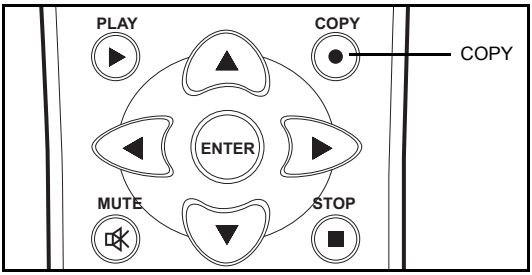
Writing from a Flash Memory Card

There are two methods which you can use to write from a Flash Memory Card to a CD-RW.

When the PhotoStorage is connected to a TV/projector, follow the steps below.

1. Insert the Flash Memory Card as described in *Inserting Flash Memory Cards* on page 13.
2. Set up the disk burning options as described in *DISC SETUP* on page 25.
3. Insert a CD-RW or a blank CD-R into the PhotoStorage as described in *Inserting and Removing a CD* on page 13.

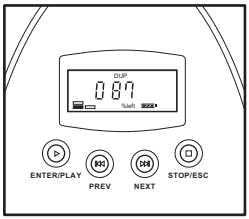
4. Press **COPY** on the remote control to start burning files to the CD.

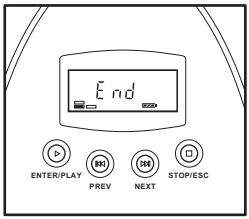


5. Wait until the **COPY COMPLETED** message appears on the screen and the CD-R/W LED stops flashing before removing the CD.

When the PhotoStorage is not connected to a TV/projector, follow the steps below.

1. Insert the Flash Memory Card as described in *Inserting Flash Memory Cards* on page 13.
2. Insert a CD-RW or a blank CD-R into the PhotoStorage as described in *Inserting and Removing a CD* on page 13.
3. Press the STOP/ESC button on the PhotoStorage to bring up the menu in the LCD panel.
4. Press the PREV and NEXT buttons until **COPy** appears in the LCD panel.
5. Press the ENTER/PLAY button to begin copying to the CD-RW. A number will appear showing the percent left to be copied as shown in the diagram. Wait until the **End** message or an error message (see *Error Codes* on page 39) appears before continuing.





6. Press the STOP/ESC button to get back to the main menu and again to exit.

NOTE: Ensure that **MODE SELECT** is not set to **TEST MODE** as described in *DISC SETUP* on page 25, before disconnecting from the TV/projector, otherwise files will not be burnt to the CD-R/W.

Files are placed in a directory called **DMX** with a consecutive number following. For example, files from your first burn will be placed in a directory called **DMX01**, files from your second burn will be placed in a directory called **DMX02** and so on.

Disk Spanning

The PhotoStorage supports disk spanning which means, when burning files from a Flash Memory Card to a CD-RW and the CD-RW becomes full, the PhotoStorage will prompt you to insert a new CD-RW. After Inserting a new CD-RW, burning will automatically continue. This can be done up to four times in one burning session.

Writing from the Computer

1. Connect the PhotoStorage to a computer as described in *Connecting to a Computer* on page 12.
2. Use Nero ROM burning software or other burning software as you normally would.

Erasing a CD-RW

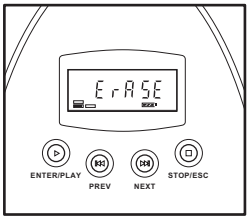
There are two methods which you can use to erase a CD-RW.

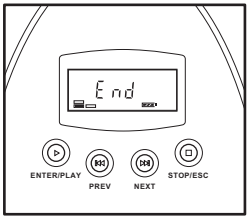
When the PhotoStorage is connected to a TV/projector, follow the steps below.

1. Insert a CD-RW as described in *Inserting and Removing a CD* on page 13.
2. Select the **ERASE CD-RW** menu item as described in *DISC SETUP* on page 25 and select **YES**.
3. Wait until **ERASE COMPLETED** message appears on the screen and the CD-R/W LED stops flashing before continuing.

When the PhotoStorage is not connected to a TV/projector, follow the steps below.

1. Insert a CD-RW as described in *Inserting and Removing a CD* on page 13.
2. Press the STOP/ESC button on the PhotoStorage to bring up the menu in the LCD panel.
3. Press the PREV and NEXT buttons until **ErASE** appears in the LCD panel.
4. Press the ENTER/PLAY button to enter this menu and **Go** will appear.
5. Press the ENTER/PLAY button to begin erasing the CD-RW and **ErASE** will appear again. Wait until the **End** message or an error message (see *Error Codes* on page 39) appears before continuing.
6. Press the STOP/ESC button to get back to the main menu and again to exit.





Appendix

Specifications

Item	Specification
DVD Drive	DVD Combo 4x drive, slim type DVD/VCD/SVCD/MP3/JPEG/MPEG support WAV multiple media playbck CD Read/Write
Flash Slots	1 x CF-type I/II, MD 1 x SM/xD (xD is only supported up to 128MB. 1 x MS/MS Pro/MMC/SD Flash media to CD-RW copy supported
Remote Control	51 keys, powered by an Li battery
Control Keys	4 keys on panel Power switch on the back, Eject key on the front
LCM	LCD with OSD
LED	1 x Power on (green) / off 1 x Charging (Charging - yellow, full - green)
Video Out	1 x Phone jack for PAL/NTSC out Supports both composite and S-video signals 1 x Component video out jack
Video Resolution	Baseline: 5120 x 3840 Progressive: 2048 x 1536
Audio Out	1 x Phone jack for stereo and optical 5.1 channel output
Volume Control	Adjustable by remote control
USB Interface	1 x USB 2.0 type-B connector for host connection supporting high speed (480mbps) data transfer
Dimensions	160 mm (w) x 202 mm (d) x 27 mm (h)
Weight	620g (without battery), 720g (with battery)
Operating Conditions	Temperature: 5~40°C (41~104°F) Relative humidity: 15%~80%, non-condensing
Storage Conditions	Temperature: -15~40°C (5~104°F) Relative humidity: 15%~80%, non-condensing
Shock Rating	Do not subject to sudden impact (0.3G operating, 2.0G non-operating)

Item	Specification
Power Source	9V, 1.7A AC/DC Adapter (universal, black) DC input jack
Battery	2000 mAh, 7.4V, Lithium-ion rechargeable, UL approved, 500 recharge cycles
Regulatory & Certification	FCC,CE VCCI, C-tick, UL, USB 2.0, WHQL
MTBF	10,000 hours
Operating Requirements	
Stand-alone Mode	Remote control, key butons, backlit LCD display for media duplication and playback of DVD, VCD, SVCD, karaoke audio CD, JPEG, MPEG, MP3, WAV data files
PC Mode	Windows 98SE/ME/2000/XP with USB 2.0 support
Macintosh Mode	OS X with USB 2.0 support
S/W Upgrade	Using CD
Cables and Options	Video: Phone plug (black) to RCA plug (yellow, 1 wire), S-Video (black) cable Audio: Phone plug (black) to RCA plug (white for left, red for right, 2 wires) cable USB 2.0 cable (B to A plug, black) Power supply (black) Optional: Component video phone plug (black) to RCA plug Y (green), Pb (blue), Pr (red) cable Optional: Optical digital audio phone plug (black) to mini optical plug (black) cable
Documentation	Printed user guide
Packaging	Paper box with EPE cushion Enclosed with driver CD

Troubleshooting

Problem	Cause and Possible Solution
No power	Check if the power cable and plug are securely connected. Try to turn on the system again.
No picture on the TV screen	• Check that the TV or projector is turned on. • Check that the AV cables are securely connected. • Check that the TV has been tuned to accept video, s-video or composite.
Picture appears in black and white	Check the settings are correct as explained in *Adjusting the TV Settings* on page 16, especially the **VIDEO OUTPUT** setting.
No sound	Check if the speaker cables and audio in/out cables are connected properly.
The speaker sound is not balanced	Check if any speaker cable is loose.
The remote control does not function	Check if you have properly inserted the battery, or install a new battery.
The disk does not play	• The is no disc in the system. • Try to point the remote control directly to the system and retry. • If it is a DVD, check if the region code is correct.
You cannot use some functions	Some functions are exclusively for DVD or Audio CDs. Refer to your disc instructions.
Audio, subtitles, or DVD menu languages can not be changed	Multi-language for audio, subtitles, or DVD menu are not recorded on the disk.
Can not turn off subtitles	DVD rejects the function to turn off the subtitle.
The home theater system does not operate properly	Sometimes the system may be affected by static electricity. Try turning on/off the system again.
Cannot adjust viewing angles	Some DVDs are not recorded with multiple cameras and do not support this function.

Error Codes

This table lists the error codes that are displayed in the PhotoStorage's LCD panel when there is an error.

Error Code		Error Code	
01	NO DISC	09	WRITE DVD ERROR
02	NO FLASH CARD	10	CD NOT ERASABLE
03	READ FLASH CARD ERROR	11	ERASE FAIL
04	BUFFER ERROR	12	DEVICE NOT READY
05	CD CLOSED	13	VERIFY READ FLASH ERROR
06	NOT ENOUGH FREE SPACE	14	VERIFY READ DISC ERROR
07	WRITE FAIL	15	
08	WRITE PRE-GAP ERROR	16	